

**ABSTRACT OF THE DISCLOSURE**

A method for creating a hot melt foamed form for an air induction system. A block of thermal mastic elastomer is melted and blended with nitrogen gas to create a foamed material. The foamed material is applied by robotic techniques over a base material on the surface of a polypropylene glass lower shell. After the foamed material cures, a polypropylene glass cover is applied over the foamed material form to create an air tight dust/water seal. The cover does not adhere to the cured foamed material and is removable when service is necessary. The foam material can also be dispensed into a mold and then transferred to the base, allowing for changes in the shape and profile of the foamed material. This method can also be employed to create an isolation pad on an air induction system to absorb engine shock. The thermal mastic elastomer can also be employed to create a seal between the cover neck of an air induction assembly and a mass air flow sensor.

15

20